PATENT COOPERATION REATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

J.

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24

Arlington, VA 22202 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 25 July 2001 (25.07.01)

International application No. PCT/US00/40519

International filing date (day/month/year) 01 August 2000 (01.08.00) Applicant's or agent's file reference

MWH-0006PCT

Priority date (day/month/year) 06 August 1999 (06.08.99)

Applicant

DENTON, R., Rex et al

1.	The designated Office is hereby notified of its election made:	
	X in the demand filed with the International Preliminary Examining Authority on:	
	05 March 2001 (05.03.01)	
	in a notice effecting later election filed with the International Bureau on:	
2.	The election X was	
	was not	
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).	
	·	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Charlotte ENGER

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PATENT COOPERATIO FREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

3 12			
Applicant's or agent's file reference MWH-0006PCT	FOR FURTHER ACT	TION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US00/40519	01 AUGUST 2000		06 AUGUST 1999
International Patent Classification (IPC) Please See Supplemental Sheet.	or national classification	and IPC	
Applicant GENAISSANCE PHARMACEUTICA	LS, INC.		
This international prelimin Examining Authority and is This REPORT consists of a	transmitted to the app		ed by this International Preliminary Article 36.
.	e basis for this report an	d or sheets containir	ription, claims and or drawings which have g rectifications made before this Authority, uder the PCT).
These annexes consist of a to-	tal of <u> </u>		
3. This report contains indication	is relating to the follow	ving items:	
I X Basis of the repo	rt		
II Priority			
III Non-establishmen	at of report with regard	l to novelty, invent	ive step or industrial applicability
IV Lack of unity of	invention		
	V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement		
VI Certain documents	cited		
VII Certain defects in the international application			
VIII Certain observation	s on the international a	plication	
	·		ļ
Date of submission of the demand		Date of completion	of this report
05 MARCH 2001		6 NOVEMBE	R 2001
Name and mailing address of the IPEA/ Commissioner of Patents and Tradem Box PCT Washington, D.C. 20231	1 1	Authorized officer Anne-Marie Ba	Bridges for
Facsimile No. (703) 305-3230 Telephone No. (703) 308-0196			703) 308-0196

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

I.	Ba	sis of t	he report		
1	With	regard t	o the elements of the international applica	tion:*	
1.	,, iai	-	ernational application as originally f		
	닏				
	X		scription: 1-36		as aromally tiled
			MONE		filed with the demand
				filed with the letter of	, med with the demand
		pages	NONE	The with the fetter of	
	$ \mathbf{x} $	the cla	ims:		•
	ئت	pages	NONE		, as originally filed
			NONE	as amended (together with any	
		pages	37-39		, filed with the demand
		pages	NONE , filed	with the letter of	
		1h = -1.	wings:		
	X		awings: 1-6		as originally filed
					filed with the demand
			NONE NONE	, filed with the letter of	
		pages			
	X	the sec	quence listing part of the description:		
	لتنا	pages	1-15	ALCOHOL STATE OF THE STATE OF T	, as originally filed
		pages	NONE		, filed with the demand
		pages	NONE	, filed with the letter of	<u> </u>
			guage of the translation furnished for th	tional application (under Rule 48.3(the purposes of international preliminary of	
3.	. Wi	th regar climinar	d to any nucleotide and/or amino ac y examination was carried out on the	id sequence disclosed in the internation basis of the sequence listing:	nal application, the international
	\mathbf{x}	contai	ned in the international application:	in printed form.	
			ogether with the international applic	•	
	\vdash		ned subsequently to this Authority is		
	\vdash		ned subsequently to this Authority is		
	\vdash		-	ed written sequence listing does not go	beyond the disclosure in the
	Ш	interna	itional application as filed has been fu	imished.	
		The state	atement that the information recorded in unished.	computer readable form is identical to	the writen sequence listing has
4	\mathbf{x}	The a	mendments have resulted in the can	cellation of:	
•		X	the description, pages NONE		
			the claims, Nos. 2 and 23		
		X	the drawings, sheets/fig NONE		
5		This re	eport has been drawn as if (some of) the	amendments had not been made, since t	hey have been considered to go
,	in t	lacement his repo	t sheets which have been furnished to the rt as "originally filed" and are not an	the Supplemental Box (Rule 70.2(c)).** receiving Office in response to an invitation nexed to this report since they do not contains.	on under Article 14 are referred to ontain amendments (Rules 70.16
,		' 70.17). v replac	ement sheet containing such amendmen	nts must be referred to under item 1 an	d annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			y;
1. statement			
Novelty (N)	Claims	1, 3-22, and 24-27	VEC
Novelly (N)	Claims	NONE	_ YES _ NO
Inventive Step (IS)	Claims	1, 3-22, and 24-27	_ YES
	Claims	NONE	_ NO
Industrial Applicability (IA)	Claims	1, 3-22, and 24-27	YES
	Claims	NONE	_ NO
	npositions. T nine receptor	t in PCT Article 33(2)-(4), because the prior art does not the prior art does not teach or fairly suggest the claimed 1A gene.	teach
NONE			
		·	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)		
Continuation of: Boxes I - VIII	Sheet 10	
CLASSIFICATION: The International Patent Classification (IPC) and/or the National classification IPC(7): C07H 21/04; C07K 14/00, 16/00; C12N 15/00 and US CI.: 435/455; 530/.800/13	are as listed below: 350, 387.1; 536/23.5, 24.31, 24.33;	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/40519

IPC(7) :0	SIFICATION OF SUBJECT MATTER 607H 21/04; C07K 14/00, 16/00; C12N 15/00 435/455; 530/350, 387.1; 536/23.5, 24.31, 24.33; 80 International Patent Classification (IPC) or to both in	00/13 ational classification and IPC		
	DS SEARCHED			
	ocumentation searched (classification system followed l	oy classification symbols)		
U.S. : 4	35/455; 530/350, 387.1; 536/23.5, 24.31, 24.33; 80	00/13		
Documentati	on searched other than minimum documentation to the ex	ktent that such documents are included in	the fields searched	
	ata base consulted during the international search (name Extra Sheet.	e of data base and, where practicable,	search terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
A	KOBILKA et al. An intronless gene end the family of receptors coupled to gu proteins. Nature. 03 September 198 entire document.	anine nucleotide regulatory	1-26	
A	LAM et al. A serotonin receptor gene (5HT1A) variant found in a Tourette's syndrome patient. Biochem. Biophys. Res. Comm. 1996. Vol. 219, No. 3, pages 853-858, entire document.			
A	MELMER et al. A cosmid clone for the 5HT1A receptor (HTR1A) reveals a TaqI RFLP that shows tight linkage to DNA loci D5S6, D5S39, and D5S76. Genomics. 1991. Vol. 11, pages 767-769, entire document.			
X Purt	her documents are listed in the continuation of Box C.	See patent family annex.		
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other		lication but cited to understand e invention te claimed invention cannot be tred to involve an inventive step the claimed invention cannot be the step when the document is the documents, such combination		
•P• d	neans ocument published prior to the international filing date but later than	being obvious to a person skilled in *&* document member of the same pater		
Date of the	the priority date claimed e actual completion of the international search EMBER 2000	Date of mailing of the international se	arch report	
Commissi Box PCT	mailing address of the ISA/US ioner of Patents and Trademarks on, D.C. 20231	Authorized officer ANNE-MARIE BAKER, PH.D	18 Day for	
Pacsimile No. (703) 305-3230		Telephone No. (703) 308-0196		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/40519

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
1	NAKHAI et al. Two naturally occurring amino acid substitutions in the human 5-HT _{1A} receptor: Glycine 22 to serine 22 and isoleucine 28 to valine 28. Biochem. Biophys. Res. Comm. 16 May 1995. Vol. 210, No. 2, pages 530-536, entire document.	1-26
A	PARKS et al. The serotonin 1a receptor gene contains a TATA-less promoter that responds to MAZ and Sp1. J. Biol. Chem. 23 February 1996. Vol. 271, No. 8, pages 4417-4430, entire document.	1-26

International application No.

B. FIELDS SEARCHED Electronic data bases consulted (Name of data base and where practicable terms used):		
WEST Dialog (file: medicine) search terms: denton, kliem, nandabalan, stephens, htrla, hydroxytryptamine, serotonin, polymorph?, genotyp?, haplotyp?, receptor		